

**Ultra-high mol. wt. polyolefin porous, permeable film mfr. - by extruding mixt. of ultra high mol. wt. polyolefin and plasticiser, biaxially stretching and treating with solvent**  
**Patent Assignee: MITSUBISHI CHEM IND LTD**

**Patent Family**

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
JP 62132943	A	19870616	JP 85274231	A	19851205	198729	B
JP 94021177	B2	19940323	JP 85274231	A	19851205	199415	

**Priority Applications (Number Kind Date): JP 85274231 A ( 19851205)**

**Patent Details**

Patent	Kind	Language	Page	Main IPC	Filing Notes
JP 62132943	A		6		
JP 94021177	B2			C08J-009/26	Based on patent JP 62132943

**Abstract:**

JP 62132943 A

Mixt. of (A) (5-60 wt.%) and (B) (40-95 wt.%) is extruded into a moulded product (C), which is biaxially stretched to satisfy the condition (E), and the film obtd. is treated with a solvent (D) (which dissolves cpd. (B)) to extract component (B). (A) is ultra-high mol. wt. polyolefin with intrinsic viscosity ( $\eta$ ) above 5.0 dl/g. (B) is hydrocarbon plasticiser with higher b.pt. than that of (A). (C) is moulded prod. in a form of film, sheet, or hollow tube, and (E) is stretching conditions are:- longitudinal stretch ratio, =  $\lambda_1$ ; transversal stretch ratio =  $\lambda_2$ .  $\lambda_1$  = above 1.5;  $\lambda_2$  = above 1.5;  $\lambda_1 \times \lambda_2$  = below 9.

Specifically stretching temp. is between  $T_m$  and  $(T_m - 10)$ , where (B) is paraffin wax, stearyl alcohol, etc.

**USE/ADVANTAGE** - For various filters as permeable film, micro filter, etc. Removal of 0.01-0.5 micron size particles can be made.

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Dialog® File Number 351 Accession Number 7206609